09484600 PANTANO WASH NEAR VAIL, AZ

LOCATION.--Lat 32°02'09", long 110°40'37", in SW_{1/4}SE_{1/4} sec. 14, T.16 S., R.16 E., Pima County, Hydrologic Unit 15050302, on right bank 60 ft upstream from dam, 2.2 mi southeast of Vail, and 20 mi southeast of Tucson City Hall.

DRAINAGE AREA.--457 mi².

PERIOD OF RECORD. -- Jan. 1959 to Sept. 1974, water years 1975–89 (annual maximums only), Oct. 1989 to current year.

GAGE.—Water-stage recorder and concrete weir. Elevation of gage is 3,205 ft above sea level, from topographic map. Jan. 1959 to Sept. 1974 (water-stage recorder) and Oct. 1974 to Sept. 1989 (crest-stage gage) at same site and datum.

REMARKS.—Records fair, except for estimated daily discharges, which are poor. No known diversion above station. Records published herein represent flow by gage. Infiltration flow is not included. Base runoff past gage station consists of downvalley underflow that is brought to the surface by the concrete dam 60 ft downstream, which extends to bedrock.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 12,000 ft³/s 0ct. 1 or 2, 1983, gage height, 15.25 ft, from inside highwater mark, from rating curve extended above 2,000 ft³/s on basis of slope-area measurements at gage heights 10.9 and 24 ft; no flow June 26 to July 13, Aug. 7, 1971 (result of work on infiltration gallery), June 27 to July 13, 1973 (result of ponding during construction work on dam), May 28 to June 12, and July 12, 13, 17, and 18, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum discharge since at least 1930, about 38,000 ft³/s, Aug. 11, 1958, gage height, about 24 ft, from floodmark, from slope-area measurement.

Discharge (ft³/s) Gage height (ft)

Time

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

Date

		Sept. 9			1700	1700 *2,030		*8.30	,					
						1700		2,00	00	0.00				
Minin	num daily o	lischarge, 0.0	4 ft ³ /s, May 31	١.										
	•													
			DISCHARGE	, CUBIC	FEET PER					2004 TO	SEPTEMBER	2005		
						DAIL	Y MEAN	VALUE	£S					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	API	3	MAY	JUN	JUL	AUG	SEP	
1	0.45	0.40	0.47	0.16	0.09	0.41	0.40		0.68	0.07	0.22	2.4	3.8	
2	0.45	0.40	0.47	0.16	0.08	0.41	0.40		0.69 0.72	0.12	0.22	5.0 3.5	1.2	
4	0.38	0.40	0.47	0.16	0.10	0.45	0.40		0.74	0.09	0.23	8.3	1.3	
5	0.39	0.40	0.47	0.16	0.09	0.40	0.40		0.75	0.07	0.21	1.5	1.3	
6	0.39	0.40	0.47	0.13	0.10	0.42	0.40		0.79	0.07	0.24	1.3	1.3	
7	0.40	0.41	0.47	0.13	0.12	0.40	0.40		0.82	0.06	0.26	3.4	1.3	
8 9	0.39	0.41	0.47	0.12	0.14	0.40	0.40		0.83	0.05	0.27 0.27	23 4.4	4.0 e190	
10	0.40	0.40	0.47	0.12	0.13	0.37	0.40		0.86	0.05	0.27	49	e1.0	
	0.10	0.10	0.17	0.15	0.15	0.55	0.1		0.00	0.00	0.20		01.0	
11	0.40	0.40	0.47	0.15	0.14	0.32	0.40)	0.88	0.08	0.30	13	e0.74	
12	0.40	0.40	0.47	0.15	0.19	0.35	0.40)	0.87	0.10	0.31	5.2	e0.69	
13	0.40	0.40	0.48	0.16	0.16	0.35	0.40		0.87	0.12	0.34	11	e0.54	
14	0.40	0.42	0.53	0.17	0.17	0.35	0.40		0.86	0.14	0.33	110	0.54	
15	0.40	0.47	0.54	0.20	0.19	0.35	0.43	L	0.84	0.16	0.32	e75	0.54	
16	0.40	0.47	0.54	0.26	0.23	0.35	0.44	1	0.83	0.15	0.32	e0.67	0.54	
17	0.40	0.47	0.54	0.32	0.30	0.36	0.44		0.85	0.13	0.33	0.57	0.55	
18	0.40	0.47	0.54	0.24	0.35	0.38	0.45		0.87	0.14	0.34	0.50	0.57	
19	0.40	0.47	0.54	0.21	0.33	0.40	0.45		0.87	0.15	0.36	0.47	0.59	
20	0.40	0.47	0.54	0.23	0.36	0.40	0.46	5	0.86	0.17	0.38	0.46	0.54	
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21	0.40	0.47	0.47	3.9	0.33	0.40	0.49		0.82	0.17 0.16	0.39	0.45 22	0.58	
22 23	0.40	0.47	0.42	0.19	0.33	0.39	0.44		0.80	0.16		22 e401	0.62 0.62	
24	0.40	0.47	0.35	0.13	0.33	0.40	0.5		0.82	0.18	0.54	e3.7	0.60	
25	0.40	0.47	0.31	0.13	0.38	0.40	0.5		0.85	0.18	0.54	e2.0	0.60	
26	0.40	0.47	0.30	0.13	0.41	0.39	0.58		0.88	0.19	0.52	e1.8	0.54	
27	0.40	0.47	0.28	0.16	0.44	0.39	0.59		25	0.19	77	1.9	0.49	
28	0.40	0.47	0.23	0.10	0.42	0.39	0.62		0.14	0.21	0.31	1.8	0.47	
29 30	0.40	0.47	0.20	0.10		0.40	0.68		0.08	0.22	0.17 31	1.8	0.45	
31	0.40		0.16	0.10		0.40			0.04		87	1.8		
31	0.10		0.10	0.10		0.10			0.01		0,	1.0		
TOTAL	12.48	13.16	13.19	8.72	6.47	11.99	13.84	1	46.61	3.96	204.10	758.62	217.66	
MEAN	0.40	0.44	0.43	0.28	0.23	0.39	0.46		1.50	0.13	6.58	24.5	7.26	
MAX	0.45	0.47	0.54	3.9	0.44	0.45	0.69		25	0.22	87	401	190	
MIN	0.38	0.40	0.16	0.10	0.08	0.32	0.40		0.04	0.05	0.17	0.45	0.45	
AC-FT	25	26	26	17	13	24	2		92	7.9	405	1500	432	
CFSM IN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.01	0.05 0.06	0.02	
IIV.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	,	0.00	0.00	0.02	0.00	0.02	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)														
MEAN	3.01	2.27	4.95	6.21	5.96	3.35	2.10		1.19	1.64	12.7	18.7	9.24	
MAX	45.6	38.7	50.3	111	75.1	21.2	12.0		2.62	20.8	49.6	92.6	105	
(WY)	2001	2001	1966	1993	1998	1998	1998		2004	2000	1967	1971	1964	
MIN	0.10	0.10	0.10	0.09	0.10	0.12	0.32		0.19	0.07	0.22	0.52	0.16	
(WY)	1974	1974	1974	2003	1974	1974	1974	±	1974	1974	1997	1973	1973	
SUMMARY STATISTICS FO				4 CALEN	DAR YEAR	1	FOR 2009	5 WAT	ER YEAR		WATER YEA	RS 1960	- 2005	
ANNUAL TOTAL				991.99			1310	0.80						
ANNUAL	MEAN		2.71				3.59				5.9	6		
	r ANNUAL										15.7		1998	
LOWEST ANNUAL MEAN													1997	
HIGHEST DAILY MEAN LOWEST DAILY MEAN					Aug 5				Aug 23			Sep 1		
ANNUAL SEVEN-DAY MINIMUM					Apr 7				May 31			0 Jun 20		
ANNUAL RUNOFF (AC-FT)			0.16 Apr 6 1970				0.06 Jun 5 2600				0.00 Jun 26 1971 4320			
ANNUAL RUNOFF (CFSM)			0.006				0.008				0.013			
ANNUAL RUNOFF (INCHES)			0.08				0.11				0.18			
10 PERCENT EXCEEDS			2.0				1.3				4.2			
50 PERCENT EXCEEDS			0.49			0.40				1.1				
90 PERC	CENT EXCE	EDS			0.13				0.30					